

Veneta

EPA Region 5 Records Ctr.



226472

Lindsay Light Team,

I asked Argonne to look again at the "rock" sample data from DuSable Park. There has been some question about the actual presence of europium and the concentration of potassium-40.

The previous concentrations were

Radium-226	120 pCi/g
Radium-228	10,300
Potassium-40	1340
Europium-155	440
Thorium-228	7350

The new concentrations are

Radium-226	87
Radium-228	9300
Potassium-40	190

Presumably, thorium-228 will be in equilibrium with radium-228 at 9300 pCi/g. Europium has been removed from the list of identified radionuclides.

Argonne's comments on their data sheet were that the potassium-40 was high because there was interference from actinium-228, a radionuclide in the thorium series. The europium-155 also appeared because of interference from thorium radionuclides. Once the data was re-evaluated in light of these interferences, the concentrations were recalculated and are those in the second set above.

Larry Jensen

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REPORT OF ANALYTICAL RESULTS

Date Received: 12/18/00
Date Reported: 3/12/02

3-12-03